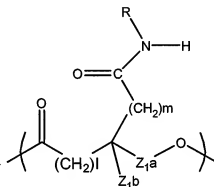


(d) Amendment to the Claims

A detailed listing of all the claims that are in the application follows:

1. (Original) A charge control agent for controlling a charged state of powder, characterized by comprising one or more units each represented by the following chemical formula (1) in a molecule:



(in the formula:

R represents -A<sub>1</sub>-SO<sub>2</sub>R<sub>1</sub>;

R<sub>1</sub> represents OH, a halogen atom, ONa, OK, or OR<sub>1a</sub>; and

R<sub>1a</sub> and A<sub>1</sub> each independently represent a group having a substituted or unsubstituted aliphatic hydrocarbon structure, a substituted or unsubstituted aromatic ring structure, or a substituted or unsubstituted heterocyclic structure;

in addition, with regard to l, m, Z<sub>1a</sub>, and Z<sub>1b</sub> in the formula:

when l represents an integer selected from 2 to 4, Z<sub>1a</sub> represents nothing or a linear alkylene chain having 1 to 4 carbon atoms, Z<sub>1b</sub> represents a hydrogen atom, and m represents an integer selected from 0 to 8;

when l represents 1 and Z<sub>1a</sub> represents a linear alkylene chain having 1 to 4 carbon atoms, Z<sub>1b</sub> represents a hydrogen atom and m represents an integer selected from 0 to 8;

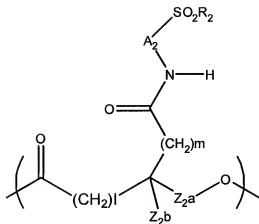
when  $l$  represents 1 and  $Z_{1a}$  represents nothing,  $Z_{1b}$  represents a hydrogen atom and  $m$  represents 0;

when  $l$  represents 0 and  $Z_{1a}$  represents a linear alkylene chain having 1 to 4 carbon atoms, the linear alkylene chain may be substituted by a linear or branched alkyl group, or an alkyl group containing a residue having any one of a phenyl structure, a thienyl structure, and a cyclohexyl structure at a terminal thereof,  $Z_{1b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and  $m$  represents an integer selected from 0 to 8; and

when  $l$  represents 0 and  $Z_{1a}$  represents nothing,  $Z_{1b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and  $m$  represents an integer selected from 0 to 8;

in addition, when multiple units exist,  $R$ ,  $R_1$ ,  $R_{1a}$ ,  $A_1$ ,  $Z_{1a}$ ,  $Z_{1b}$ ,  $l$ , and  $m$  each independently have the above meaning for each unit.)

2. (Original) A charge control agent according to claim 1, characterized in that the one or more units each represented by the chemical formula (1) are each represented by the following chemical formula (2):



(in the formula:

$R_2$  represents OH, a halogen atom, ONa, OK, or  $OR_{2a}$ ; and

$R_{2a}$  represents a linear or branched alkyl group having 1 to 8 carbon atoms, or a substituted or unsubstituted phenyl group, and  $A_2$  represents a linear or branched alkylene group having 1 to 8 carbon atoms;

in addition, with regard to  $l$ ,  $m$ ,  $Z_{2a}$ , and  $Z_{2b}$  in the formula:

when  $l$  represents an integer selected from 2 to 4,  $Z_{2a}$  represents nothing or a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{2b}$  represents a hydrogen atom, and  $m$  represents an integer selected from 0 to 8;

when  $l$  represents 1 and  $Z_{2a}$  represents a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{2b}$  represents a hydrogen atom and  $m$  represents an integer selected from 0 to 8;

when  $l$  represents 1 and  $Z_{2a}$  represents nothing,  $Z_{2b}$  represents a hydrogen atom and  $m$  represents 0;

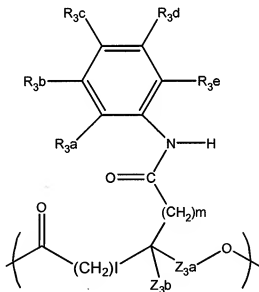
when  $l$  represents 0 and  $Z_{2a}$  represents a linear alkylene chain having 1 to 4 carbon atoms, the linear alkylene chain may be substituted by a linear or branched alkyl group, or an alkyl group containing a residue having any one of a phenyl structure, a thienyl structure, and

a cyclohexyl structure at a terminal thereof,  $Z_{2b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and  $m$  represents an integer selected from 0 to 8; and

when  $l$  represents 0 and  $Z_{2a}$  represents nothing,  $Z_{2b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and  $m$  represents an integer selected from 0 to 8;

in addition, when multiple units exist,  $R_2$ ,  $R_{2a}$ ,  $A_2$ ,  $Z_{2a}$ ,  $Z_{2b}$ ,  $l$ , and  $m$  each independently have the above meaning for each unit.)

3. (Previously Presented) A charge control agent according to claim 1, characterized in that the one or more units each represented by the chemical formula (1) are each represented by the following chemical formula (3):



(in the formula, at least one of  $R_{3a}$ ,  $R_{3b}$ ,  $R_{3c}$ ,  $R_{3d}$ , and  $R_{3e}$  represents  $SO_2R_{3f}$  ( $R_{3f}$  represents OH, a halogen atom, ONa, OK, or  $OR_{3fi}$ ,  $R_{3fi}$  represents a linear or branched alkyl group having 1 to 8

carbon atoms, or a substituted or unsubstituted phenyl group), and the others each independently represent a hydrogen atom, a halogen atom, an alkyl group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, an OH group, an  $\text{NH}_2$  group, an  $\text{NO}_2$  group,  $\text{COOR}_{3g}$  ( $\text{R}_{3g}$  represents an H atom, an Na atom, or a K atom), an acetamide group, an OPh group, an NPh group, a  $\text{CF}_3$  group, a  $\text{C}_2\text{F}_5$  group, or a  $\text{C}_3\text{F}_7$  group;

in addition, with regard to l, m,  $Z_{3a}$ , and  $Z_{3b}$  in the formula:

when l represents an integer selected from 2 to 4,  $Z_{3a}$  represents nothing or a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{3b}$  represents a hydrogen atom, and m represents an integer selected from 0 to 8;

when l represents 1 and  $Z_{3a}$  represents a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{3b}$  represents a hydrogen atom and m represents an integer selected from 0 to 8;

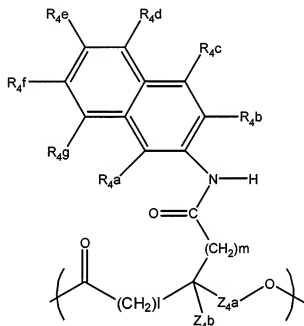
when l represents 1 and  $Z_{3a}$  represents nothing,  $Z_{3b}$  represents a hydrogen atom and m represents 0;

when l represents 0 and  $Z_{3a}$  represents a linear alkylene chain having 1 to 4 carbon atoms, the linear alkylene chain may be substituted by a linear or branched alkyl group, or an alkyl group containing a residue having any one of a phenyl structure, a thienyl structure, and a cyclohexyl structure at a terminal thereof,  $Z_{3b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and m represents an integer selected from 0 to 8; and

when l represents 0 and  $Z_{3a}$  represents nothing,  $Z_{3b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and m represents an integer selected from 0 to 8;

in addition, when multiple units exist,  $R_{3a}$ ,  $R_{3b}$ ,  $R_{3c}$ ,  $R_{3d}$ ,  $R_{3e}$ ,  $R_{3f}$ ,  $R_{3g}$ ,  $Z_{3a}$ ,  $Z_{3b}$ ,  $l$ , and  $m$  each independently have the above meaning for each unit.)

4. (Previously Presented) A charge control agent according to claim 1, characterized in that the one or more units each represented by the chemical formula (1) are each represented by the following chemical formula (4A) or (4B):



(in the formula, at least one of  $R_{4a}$ ,  $R_{4b}$ ,  $R_{4c}$ ,  $R_{4d}$ ,  $R_{4e}$ ,  $R_{4f}$ , and  $R_{4g}$  represents  $SO_2R_{4o}$  ( $R_{4o}$  represents OH, a halogen atom, ONa, OK, or  $OR_{4o1}$ ,  $R_{4o1}$  represents a linear or branched alkyl group having 1 to 8 carbon atoms, or a substituted or unsubstituted phenyl group), and the others each independently represent a hydrogen atom, a halogen atom, an alkyl group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, an OH group, an  $NH_2$  group, an  $NO_2$  group,  $COOR_{4p}$  ( $R_{4p}$  represents an H atom, an Na atom, or a K atom), an acetamide group, an OPh group, an NHPh group, a  $CF_3$  group, a  $C_2F_5$  group, or a  $C_3F_7$  group;

in addition, with regard to l, m,  $Z_{4a}$ , and  $Z_{4b}$  in the formula:

when l represents an integer selected from 2 to 4,  $Z_{4a}$  represents nothing or a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{4b}$  represents a hydrogen atom, and m represents an integer selected from 0 to 8;

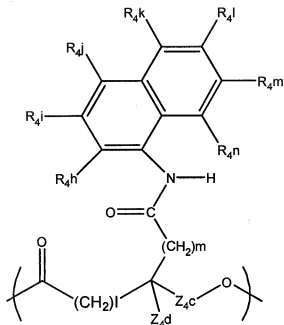
when l represents 1 and  $Z_{4a}$  represents a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{4b}$  represents a hydrogen atom and m represents an integer selected from 0 to 8;

when l represents 1 and  $Z_{4a}$  represents nothing,  $Z_{4b}$  represents a hydrogen atom and m represents 0;

when l represents 0 and  $Z_{4a}$  represents a linear alkylene chain having 1 to 4 carbon atoms, the linear alkylene chain may be substituted by a linear or branched alkyl group, or an alkyl group containing a residue having any one of a phenyl structure, a thienyl structure, and a cyclohexyl structure at a terminal thereof,  $Z_{4b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and m represents an integer selected from 0 to 8; and

when l represents 0 and  $Z_{4a}$  represents nothing,  $Z_{4b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and m represents an integer selected from 0 to 8;

in addition, when multiple units exist,  $R_{4a}$ ,  $R_{4b}$ ,  $R_{4c}$ ,  $R_{4d}$ ,  $R_{4e}$ ,  $R_{4f}$ ,  $R_{4g}$ ,  $R_{4o}$ ,  $OR_{4o1}$ ,  $R_{4p}$ ,  $Z_{4a}$ ,  $Z_{4b}$ , l, and m each independently have the above meaning for each unit)



(in the formula, at least one of  $R_{4h}$ ,  $R_{4i}$ ,  $R_{4j}$ ,  $R_{4k}$ ,  $R_{4l}$ ,  $R_{4m}$ , and  $R_{4n}$  represents  $SO_2R_{4o}$  ( $R_{4o}$  represents OH, a halogen atom, ONa, OK, or  $OR_{4o1}$ ,  $R_{4o1}$  represents a linear or branched alkyl group having 1 to 8 carbon atoms, or a substituted or unsubstituted phenyl group), and the others each independently represent a hydrogen atom, a halogen atom, an alkyl group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, an OH group, an  $NH_2$  group, an  $NO_2$  group,  $COOR_{4p}$  ( $R_{4p}$  represents an H atom, an Na atom, or a K atom), an acetamide group, an OPh group, an NHPh group, a  $CF_3$  group, a  $C_2F_5$  group, or a  $C_3F_7$  group;

in addition, with regard to  $l$ ,  $m$ ,  $Z_{4c}$ , and  $Z_{4d}$  in the formula:

when  $l$  represents an integer selected from 2 to 4,  $Z_{4c}$  represents nothing or a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{4d}$  represents a hydrogen atom, and  $m$  represents an integer selected from 0 to 8;

when  $l$  represents 1 and  $Z_{4c}$  represents a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{4d}$  represents a hydrogen atom and  $m$  represents an integer selected from 0 to 8;



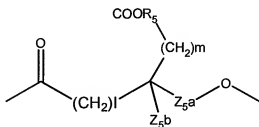
when  $l$  represents 1 and  $Z_{4c}$  represents nothing,  $Z_{4d}$  represents a hydrogen atom and  $m$  represents 0;

when  $l$  represents 0 and  $Z_{4c}$  represents a linear alkylene chain having 1 to 4 carbon atoms, the linear alkylene chain may be substituted by a linear or branched alkyl group, or an alkyl group containing a residue having any one of a phenyl structure, a thienyl structure, and a cyclohexyl structure at a terminal thereof,  $Z_{4d}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and  $m$  represents an integer selected from 0 to 8; and

when  $l$  represents 0 and  $Z_{4c}$  represents nothing,  $Z_{4d}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and  $m$  represents an integer selected from 0 to 8;

in addition, when multiple units exist,  $R_{4b}$ ,  $R_{4i}$ ,  $R_{4j}$ ,  $R_{4k}$ ,  $R_{4l}$ ,  $R_{4m}$ ,  $R_{4n}$ ,  $R_{4o}$ ,  $OR_{4e1}$ ,  $R_{4p}$ ,  $Z_{4c}$ ,  $Z_{4d}$ ,  $l$ , and  $m$  each independently have the above meaning for each unit.)

5. (Withdrawn) A charge control agent for controlling a charged state of powder, characterized by comprising one or more units each represented by the following chemical formula (5) in a molecule:



(in the formula:

$R_3$  represents hydrogen, a group for forming a salt, or  $R_{3a}$ , and  $R_{3a}$  represents a linear or branched alkyl group having 1 to 12 carbon atoms, or aralkyl group;

in addition, with regard to  $l$ ,  $m$ ,  $Z_{5a}$ , and  $Z_{5b}$  in the formula:

when  $l$  represents an integer selected from 2 to 4,  $Z_{5a}$  represents nothing or a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{5b}$  represents a hydrogen atom, and  $m$  represents an integer selected from 0 to 8;

when  $l$  represents 1 and  $Z_{5a}$  represents a linear alkylene chain having 1 to 4 carbon atoms,  $Z_{5b}$  represents a hydrogen atom and  $m$  represents an integer selected from 0 to 8;

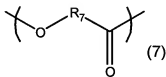
when  $l$  represents 1 and  $Z_{5a}$  represents nothing,  $Z_{5b}$  represents a hydrogen atom and  $m$  represents 0;

when  $l$  represents 0 and  $Z_{5a}$  represents a linear alkylene chain having 1 to 4 carbon atoms, the linear alkylene chain may be substituted by a linear or branched alkyl group, or an alkyl group containing a residue having any one of a phenyl structure, a thienyl structure, and a cyclohexyl structure at a terminal thereof,  $Z_{5b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and  $m$  represents an integer selected from 0 to 8; and

when  $l$  represents 0 and  $Z_{5a}$  represents nothing,  $Z_{5b}$  represents a hydrogen atom, or a linear or branched alkyl group, aryl group, or aralkyl group which may be substituted by an aryl group, and  $m$  represents an integer selected from 0 to 8;

in addition, when multiple units exist,  $R_3$ ,  $R_{3a}$ ,  $Z_{5a}$ ,  $Z_{5b}$ ,  $l$ , and  $m$  each independently have the above meaning for each unit.)

6. (Previously Presented) A charge control agent according to claim 1, characterized by further comprising a unit represented by the following chemical formula (7) in a molecule:



(in the formula, R<sub>7</sub> represents a linear or branched alkylene group having 1 to 11 carbon atoms, an alkyleneoxyalkylene group each alkylene of which has 1 to 2 carbon atoms, or an alkylidene group having 1 to 5 carbon atoms which may be substituted by aryl as desired;

in addition, when multiple units exist, R<sub>7</sub> independently has the above meaning for each unit.)

7. (Previously Presented) A charge control agent according to claim 1, wherein the powder comprises toner for developing an electrostatic charge image.

8. (Previously Presented) A toner for developing an electrostatic charge image, characterized by comprising at least:

a binder resin;

a colorant; and

the charge control agent according to claim 1.

9. (Previously Presented) An image forming method, comprising at least the steps of:

applying a voltage from an outside to a charging member to charge an electrostatic latent image-bearing member;

forming an electrostatic charge image on the charged electrostatic latent image-bearing member;

developing the electrostatic charge image with the toner of claim 8 for developing an electrostatic charge image to form a toner image on the electrostatic latent image-bearing member;

transferring the toner image on the electrostatic latent image-bearing member onto a recording material; and

fixing the toner image on the recording material under heating.

10. (Previously Presented) An image forming apparatus, comprising at least:

means for applying a voltage from an outside to a charging member to charge an electrostatic latent image-bearing member;

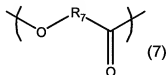
means for forming an electrostatic charge image on the charged electrostatic latent image-bearing member;

means for developing the electrostatic charge image with the toner of claim 8 for developing an electrostatic charge image to form a toner image on the electrostatic latent image-bearing member;

means for transferring the toner image on the electrostatic latent image-bearing member onto a recording material; and

means for fixing the toner image on the recording material under heating.

11. (Withdrawn) A charge control agent according to claim 5, characterized by further comprising a unit represented by the following chemical formula (7) in a molecule:



in the formula, R<sub>7</sub> represents a linear or branched alkylene group having 1 to 11 carbon atoms, an alkyleneoxyalkylene group each alkylene of which has 1 to 2 carbon atoms, or an alkylidene group having 1 to 5 carbon atoms which is optionally substituted by aryl;

wherein when multiple units exist, R<sub>7</sub> independently has the above meaning for each unit.

12. (Withdrawn) A charge control agent according to claim 5, wherein the powder comprises toner for developing an electrostatic charge image.

13. (Withdrawn) A toner for developing an electrostatic charge image, characterized by comprising at least:

- a binder resin;
- a colorant; and
- the charge control agent according to claim 5.

14. (Withdrawn) An image forming method, comprising at least the steps of:  
applying a voltage from an outside to a charging member to charge an electrostatic latent image-bearing member;

forming an electrostatic charge image on the charged electrostatic latent image-bearing member;

developing the electrostatic charge image with the toner of claim 13 for developing an electrostatic charge image to form a toner image on the electrostatic latent image-bearing member;

transferring the toner image on the electrostatic latent image-bearing member onto a recording material; and

fixing the toner image on the recording material under heating.

15. (Withdrawn) An image forming apparatus, comprising at least:

means for applying a voltage from an outside to a charging member to charge an electrostatic latent image-bearing member;

means for forming an electrostatic charge image on the charged electrostatic latent image-bearing member;

means for developing the electrostatic charge image with the toner of claim 13 for developing an electrostatic charge image to form a toner image on the electrostatic latent image-bearing member;

means for transferring the toner image on the electrostatic latent image-bearing member onto a recording material; and

means for fixing the toner image on the recording material under heating.